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Electrophoresis & Brownian Motion Video Analysis Laser Scattering Microscopy

Operator (Report): sop_kabanovlab.inst

Video Operator: sop_kabanovlab.inst

Sample Parameters

Sample Name: G104_F2_scatter80
Comment: Sample Remarks0:
Sample Remarks1:
Sample Remarks2:
Electrolyte:
Temperature: 27.56 °C sensed
pH 7.0 entered
Conductivity: 14213.85 µS/cm sensed

Instrument Parameters

Laser Wavelength: 488 nm
Filter Wavelength: Scatter

Measurement Parameters

Cell S/N: ZNTA

Measurement Mode: Size Distribution 1 Cycle

11 Positions, 2 Removed for Analysis

Result (sizes in nm)

	Number	Concentration	Volume
Median (X50)	137.6	137.6	211.3
Span	62.3	62.1	69.2

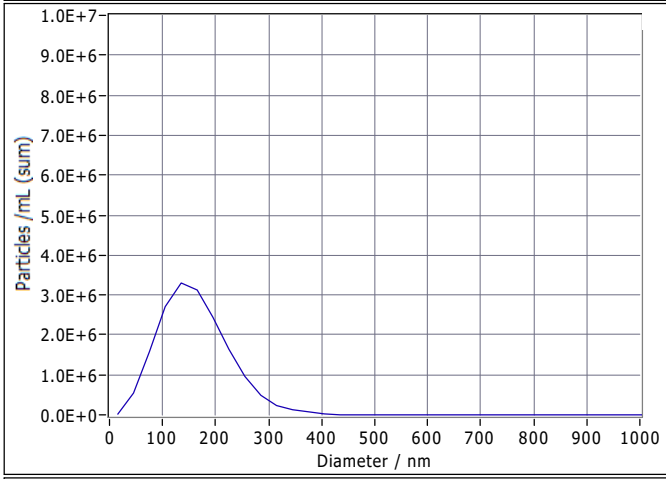
Concentration: 1.7E+7 Particles / mL
Dilution Factor: 2000
Original Concentration: 3.4E+10 Particles / mL

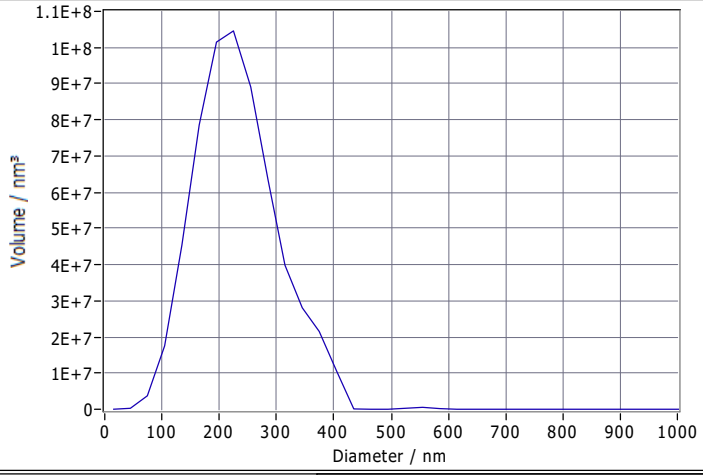
Quality

Average Counted Particles per Frame: 38
Number of Traced Particles: 183

Analysis Parameters

Max Area: 1000, Min Area: 10, Min Brightness: 20





Peak Analysis (Concentration)

Diameter / nm	Particles/mL	FWHM / nm	Percentage
145.3	3.2E+6	148.0	100.0

X Values (all sizes are given in nm)

	Number	Concentration	Volume
X10	73.7	73.7	127.2
X50	137.6	137.6	211.3
X90	233.5	233.5	322.4
Span	1.2	1.2	0.9
Mean	161.7	161.7	231.0
StdDev	62.3	62.1	69.2

Comment

(Signature)

Analyzed Video: D:\Julia Rager\0413223\20230412_0024_G104_F2_scatter80_size_488.avi